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ABSTRACT

The results of a summative evaluation of the 1988-89 Prekindergarten Program of Saginaw, Michigan public schools, which served 448 childlren at 13 elementary schools are reported. The major evaluation question was: Did the program attain the objectives that it set out to accomplish? To answer this question, the Prekindergarten Saginaw Objective Reference Test (PK-SORT) was used to assess student achievement. The PK-SORT included 31 items dealing with psychomotor and cognitive program areas. Also used was the Parents as Partners Sheet, an instrument which called for each teacher to record the amount and type of parent participation that occurred during the year. PK-SORT data showed that the program met 7 of the 13 cognitive and psychomotor objectives. In addition, all three objectives dealing with the Parents as Partners program component were met. Recommendations for program improvement are offered. Chapter 1 prekindergarten objectives, tables of data, participant lists, and the PK-SORT are appended. (RH)

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# EVALUATION REPORT

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## PREKINDERGARTEN PROGRAM
## PRODUCT EVALUATION REPORT

## 1988-89

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*Saginaw Public Schools*

*Saginaw, Michigan*

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# PREKINDERGARTEN PROGRAM
# PRODUCT EVALUATION REPORT

**1988-89**

An Approved Report of the
DIVISION OF ADMINISTRATION AND PERSONNEL
Department of Evaluation, Testing, and Research


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June, 1989

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## PROGRAM DESCRIPTION

Saginaw's Prekindergarten Program, which has been in operation for the past nineteen years, is funded through Chapter 1 of the Education Consolidation and Improvement Act (ECIA). It is designed to provide four year olds with an environment that will enable them to develop skills needed for future success in school. The ultimate purpose of this program is to prepare inner city children, most of whom come from backgrounds that may not have equipped them with these skills, for entry into kindergarten. The program has goals and objectives (see Appendix A) that children, teachers, and parents work toward throughout the year. After a year of prekindergarten, these children should at least be on par with other children as they enter kindergarten.

This year there were approximately 448 children enrolled at thirteen buildings, two of which operated a half-day session[1] (see Appendix B for counts by site). For the tenth consecutive year, the standardized 27 item Prekindergarten Readiness Screening Device (PRSD) was individually administered. Selection for this year's program was based on the pre-schooler receiving a raw score of 19 or below. A total of 490 children were screened this year (1988-89) as opposed to 509 screened last year (1987-88).

The prekindergarten staff included a staff supervisor, 13 certified teachers, 14 teacher aides, a secretary, and a graphic arts/clerical aide. With the exception of the half-day sites, each school operated at least two sessions, one from 8:45 a.m. to 11:15 a.m., and another from 12:30 p.m. to 3:10 p.m. Class sizes varied from 15 to 20 children per half-day session.

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[1]Full day programs are operating at Baillie, Coulter, Emerson, Haley, Heavenrich, Houghton, Jones, J. Rouse, Loomis, Webber, and Longfellow. A half-day session operates at Morley and Salina.

## EVALUATION PROCEDURES

This report presents the results of the product evaluation of the 1988-89 Prekindergarten Program. A process evaluation was also conducted this year, and these findings are reported in a separate report.

### Product Evaluation

A product evaluation measures the end results of a particular program. The major product (or outcome) question was: Did the program attain the objectives it set out to accomplish?

To answer this question, the Prekindergarten Saginaw Objective Reference Test (PK-SORT) was used to assess student achievement (see Appendix C for a copy of PK-SORT). The PK-SORT included 31 items dealing with both psychomotor and cognitive program areas. The first 17 items measured the program's nine cognitive objectives while the remaining 14 dealt with the four fine and gross motor objectives.

The other evaluation instrument is the Parents as Partners Sheet, on which each teacher records the amount and type of parent participation that occurred during the year (objectives 14-16).

## PRESENTATION AND ANALYSIS OF PRODUCT DATA

### Prekindergarten Saginaw Objective Referenced Tests (Pk-Sort)

The results of the PK-SORT administered during May 8-19, 1989 to the prekindergarten pupils are presented. PK-SORT results will be reported separately for both cognitive and psychomotor subtest areas. The following results are based upon the testing of 400 pupils in May. Summary post-test data for the cognitive subtest are contained in Table 1 below. The cognitive subtest measures nine objectives.

**TABLE 1. SUMMARY OF NUMBER AND PERCENT OF PUPILS ATTAINING OBJECTIVES OF THE PREKINDERGARTEN SORT COGNITIVE SUBTEST MAY, 1989.**

| Obj. # | Objective Description | Standard | Pupils | | | Attainment of Objective |
|---|---|---|---|---|---|---|
| | | | Tested # | Attaining Standard # | % | |
| 1 | Physical Knowledge | 80% of the pupils will correctly respond to 2 of 3 related items | 400 | 359 | 89.8 | Yes |
| 2 | Social Knowledge | 80% of the pupils will correctly respond to at least 3 of 4 related items | 400 | 357 | 89.2 | Yes |
| 3 | Knowledge: Classification | 50% of the pupils will apply 2 criteria for sorting | 400 | 263 | 65.8 | Yes |
| 4 | Knowledge: Logical-Mathematical -Seriation | 70% of the pupils will answer at least 1 of 2 related items | 400 | 240 | 60.0 | No |
| 5 | Spatio-Temporal Knowledge: Structure of Time | 50% of the pupils will respond correctly to at least 50% of the items | 400 | 264 | 66.0 | Yes |
| 6 | Expressive Language: Labeling | 85% of the pupils will label at least 4 objects in a picture | 400 | 361 | 90.2 | Yes |
| 7 | Expressive Language: Mean Length of Utterance | 80% of the pupils will use at least 3 of 5 elements of fluency | 400 | 249 | 62.2 | No |
| 8 | Expressive Language: Semantics | 65% of the pupils will use at least 3 of 5 elements of fluency | 400 | 209 | 52.2 | No |
| 9 | Expressive Language: Plot Extension/ Expansion | 50% of the pupils will use at least 1 element of plot extension in their description | 400 | 325 | 81.2 | Yes |

Analysis of the data contained in the above table reveals the following:

- Prekindergarten pupils attained six of the nine cognitive objectives.
- The three objectives not meeting the mastery criteria were Knowledge: Logical-Mathematical-Seriation, Expressive Language: Mean Length of Utterance and Expressive Language: Semantics.
- Objective 6 (Expressive Language: Labeling) demonstrated the greatest percentage of attainment (90.2%).

Summary data for the psychomotor subtest are presented in Table 2 which follows. The psychomotor subtest measures four objectives

**TABLE 2. SUMMARY OF NUMBER AND PERCENT OF PUPILS ATTAINING OBJECTIVES ON THE PREKINDERGARTEN SORT PSYCHOMOTOR SUBTEST MAY, 1989.**

| Obj. # | Objective Description | Standard | Pupils | | | Attainment of Objective |
|---|---|---|---|---|---|---|
| | | | Tested # | Attaining Standard # | % | |
| 10 | Fine Motor Coordination | 80% of the pupils will perform at least 3 of 4 activities | 400 | 303 | 75.8 | No |
| 11 | Spatio-Temporal Knowledge: Structuring of Space (Order) | 65% of the pupils will correctly pattern a topological relationship | 400 | 243 | 60.8 | No |
| 12 | Representation at the Symbol Level: Specific Shapes | 65% of the pupils will copy 3 of 4 shapes | 400 | 179 | 44.8 | No |
| 13 | Gross Motor Coordination | 80% of the pupils will complete at least 3 of 4 movements | 400 | 354 | 88.5 | Yes |

Analysis of the above data reveals the following results:

- Prekindergarten pupils attained one of the four objectives.
- Objective 12 (Representation at the Symbol Level: Specific Shapes) lowest attainment (44.8%).[2]
- Objective 13 (Gross Motor Coordination) continued to demonstrate the highest attainment (88.5%).

The presentation of cognitive and psychomotor post-test achievement data by building are shown in Appendix B.

A comparison of this year's PK-SORT post-test results with the last two years is reflected in Table 3 below.

[2]Some of the low achievement on specific shapes may be due to some of the staff lacking the scoring directions for the specific shape items (57-60). The first set of revised PK-SORT manuals lacked these directions but after this omission was discovered these pages were given to staff.

**TABLE 3. COMPARISON OF THE NUMBER, PERCENT AND DIFFERENCE BETWEEN 1987, 1988, AND 1989 PUPILS ATTAINING OBJECTIVES ON THE POST-TESTING OF THE PREKINDERGARTEN SORT.**

| Obj. # | Objective Description | 1987 Pupils N=403 Attaining Standard # | 1987 Pupils N=403 Attaining Standard % | 1988 Pupils N=441 Attaining Standard # | 1988 Pupils N=441 Attaining Standard % | Difference Between 1987 and 1988 % | 1989 Pupils N=400 Attaining Standard # | 1989 Pupils N=400 Attaining Standard % | Difference Between 1988 and 1989 % |
|---|---|---|---|---|---|---|---|---|---|
| 1 | Physical Knowledge (80)* | 361 | 89.6 | 424 | 96.1 | + 6.5 | 359 | 89.8 | - 6.3 |
| 2 | Social Knowledge (80) | 364 | 90.3 | 410 | 93.0 | + 2.7 | 357 | 89.2 | - 3.8 |
| 3 | Knowledge: Classification (50) | 256 | 63.5 | 233 | 53.0 | - 10.5 | 263 | 65.8 | + 13.8 |
| 4 | Knowledge: Logical-Mathematical-Seriation (70) | 236 | 58.6 | 237 | 53.7 | - 4.9 | 240 | 60.0 | + 6.3 |
| 5 | Spatio-Temporal Knowledge: Structure of Time (50) | 280 | 69.5 | 324 | 73.5 | + 4.0 | 264 | 66.0 | - 7.5 |
| 6 | Expressive Language: Labeling (85) | 375 | 93.1 | 392 | 89.1 | - 4.0 | 361 | 90.2 | + 1.1 |
| 7 | Expressive Language: Mean Length of Utterance (80) | 257 | 63.8 | 272 | 61.7 | - 2.1 | 249 | 62.2 | + 0.5 |
| 8 | Expressive Language: Semantics (65) | 184 | 45.7 | 183 | 41.5 | - 4.2 | 209 | 52.2 | + 10.7 |
| 9 | Expressive Language: Plot Extension/Expansion (50) | 335 | 83.1 | 420 | 95.2 | + 12.1 | 325 | 81.2 | - 14.0 |
| 10 | Fine Motor Coordination (80) | 346 | 85.9 | 347 | 78.9 | - 7.0 | 303 | 75.8 | - 3.1 |
| 11 | Spatio-Temporal Knowledge: Structuring of Space (Order) (65) | 264 | 65.5 | 217 | 49.2 | - 16.3 | 243 | 60.8 | + 11.6 |
| 12 | Representation at the Symbol Level: Specific Shapes (65) | 201 | 49.9 | 181 | 41.0 | - 8.9 | 179 | 44.8 | + 3.8 |
| 13 | Gross Motor Coordination (80) | 361 | 89.6 | 389 | 89.0 | - 0.6 | 354 | 88.5 | - 0.5 |

*Represents criteria for mastery.

A review of the above table indicates that:

- For 1988 compared to 1987:

  - Of the thirteen objectives, four showed increases while nine other objectives showed decreases in the percent of pupils meeting the mastery criteria.

  - Decreases ranged from 0.6 to 16.3 percentage points while the increases ranged from 2.7 to 12.1 percentage points.

  - Objectives 3, 4, 5, 6, 7, 8, 10, 11, 12, and 13 showed decreases.

  - Objectives 1, 2, 5, and 9 showed increases.

- For 1989 compared to 1988:

  - Of the thirteen objectives, seven showed increases while six other objectives showed decreases in the percent of pupils meeting the mastery criteria.

  - Decreases ranged from 0.5 to 14.0 percentage points while the increases ranged from 0.5 to 13.8 percentage points.

  - Objectives 1, 2, 5, 9, 10, and 13 showed decreases.

  - Objectives 3, 4, 6, 7, 8, 11, and 12 showed increases.

**Parents as Partners**

Parent participation has always been an important part of the Prekindergarten Program. This component is designed to provide parents with the skills they need to become directly involved in their children's education. Parents and other members of the family frequently are quite eager to provide these learning experiences for their child. The parenting component can provide them with specific information on how their interactions can contribute to their child's development.

The parent program had three main objectives:

14. 60% of the prekindergarten families will participate in the classroom or on field trips four times per year.

15. 60% of the prekindergarten families will participate in parent meetings four times per year.

16. 80% of the prekindergarten families will complete with the child, nine home activities and return them to school.

The evaluation of this year's parenting component consisted of a year-end analysis of the data collected and recorded during the year.

Parent participation is an important component of this program. Table 4 below presents a detailed view of how the program fared on each of the three objectives.

**TABLE 4. ATTAINMENT OF PRODUCT OBJECTIVE AS DETERMINED BY CUMULATIVE ANALYSIS OF SEPTEMBER, 1988 TO JUNE, 1989 PARENTS AS PARTNERS MONTHLY LOGS.**

| Objective Number | Total Families # | Families Meeting Standards # | Families Meeting Standards % | Objective Attained |
|---|---|---|---|---|
| 14 (60%)* | 407 | 323 | 79.4% | Yes |
| 15 (60%) | 407 | 325 | 79.8% | Yes |
| 16 (80%) | 407 | 348 | 85.5% | Yes |

*Mastery criteria for each objective stated in percent.

As an analysis of the above data indicates, the parenting component was a success. All three objectives met the attainment standard. Parenting data by building can be found in Appendix C.

## SUMMARY AND CONCLUSIONS

The 1988-89 Chapter 1 Prekindergarten Program served approximately 448 children at thirteen elementary schools. A screening test was administered to each registrant at the beginning of the year to select the children who most needed this experience.

The Prekindergarten Saginaw Objective Reference Test (PK-Sort) was used to measure product outcomes on thirteen of the sixteen program objectives. The results show that the program attained six of the nine objectives in the cognitive skills area, and one of the four objectives in the psychomotor skills area. Overall, the program was able to attain seven (53.8%) of the thirteen objectives.

Objectives fourteen, fifteen, and sixteen were also part of the product evaluation of this program. These objectives deal specifically with the Parents as Partners program component. Results show that the program attained all three of these objectives.

Thus, the Saginaw Prekindergarten Program was successful in attaining 10 (62.5%) of the sixteen objectives for the program. Review of the process and product evaluation data indicates certain areas where refinement or adjustments can be made in aiming toward further program improvement.

## RECOMMENDATIONS

The recommendations that follow are based on this year's process and product evaluations and are intended to help bring about program improvements in the following school year.

1. The teachers and program supervisor should jointly explore the probable circumstances for poor achievement on objectives 4, 7, 8, 10, 11, and 12 and develop an instructional management system which will lead to attaining these objectives with special emphasis on expressive language objectives 7 and 8 and representation at the symbol level: specific shapes objective 14.

2. The program supervisor and teaching staff should analyze the building results presented by objective, in order to formulate a plan to reduce differences in program impact across buildings.

3. Based on the process finding of large differences between teachers in using language production/enhancement techniques with children, an expectation of the frequency needs to be communicated to staff and further clinical supervision to determine if these are realistic expectations.

4. The frequency of closed- to open-ended questions (approximately 50/50) is excellent. A review and extension on how to better phrase open-ehded questions to better foster expressive language seems warranted.

5. Because of the frequent turnover of staff, possible expansion of the program in the future, and the increasing sophistication of the preschool program, a training manual and/or video needs to be developed that spells out common daily preschool practices and procedures.

## APPENDIX A

## 1988-89 CHAPTER 1 PREKINDERGARTEN OBJECTIVES

1. Physical Knowledge

   80% of the pupils will demonstrate properties of and display appropriate behavior for exploring properties of objects by correctly responding to 2 of 3 items related.

2. Social Knowledge

   80% of the pupils will demonstrate knowledge of social roles by correctly responding to at least three of four items related to Objective 2.

3. Knowledge: Classification

   50% of the pupils will successfully apply two criteria for sorting: color and/or form.

4. Knowledge: Logical-Mathematical-Seriation

   70% of the pupils will compare and arrange objects according to a given dimension of coordinating transitive relationships of at least one of two items of this objective.

5. Spatio-Temporal Knowledge: Structuring of Time

   50% of the pupils will respond correctly to at least 50% of the items related to temporal ordering of events.

6. Expressive Language: Labeling

   85% of the pupils will label at least four objects in the birthday party picture.

7. Expressive Language: Mean Length of Utterance

   80% of the pupils will use sentences of at least five words to describe the birthday party picture.

8. Expressive Language: Semantics

   65% of the pupils will use at least three of five elements of fluency in their description of the birthday party picture.

## APPENDIX A

## 1988-89 CHAPTER 1 PREKINDERGARTEN OBJECTIVES (Cont.)

9. Expressive Language: Plot Extension/Expansion

   50% of the pupils will use at least one element of plot extension in their description of the birthday party picture.

10. Fine Motor Coordination

    80% of the pupils will successfully perform at least three of four activities involving hand/eye coordination.

11. Spatio-Temporal Knowledge: Structuring of Space (Order)

    65% of the pupils will correctly respond to topological relationships of order or pattern.

12. Representation at the Symbol Level: Specific Shapes

    65% of the pupils will copy successfully three of four shapes.

13. Gross Motor Coordination

    80% of pupils will successfully complete at least three of four large movements of the body.

14. Parent Participation

    60% of the adult members of the prekindergarten family will participate in school activities at least four times per year.

15. Parent Education Program: Friday Meetings

    60% of the adult members of the prekindergarten family will participate in at least four Friday meetings.

16. Parent Education Program: Home Work Activities

    80% of the adult members of the prekindergarten family will help the child complete at least nine prekindergarten home activities and return them to school.

TABLE B.1. COMPARISON OF THE PERCENT OF STUDENTS AT POST-TESTING ATTAINING MASTERY ON PK-SORT OBJECTIVES BY BUILDING FOR 1988-89.

| Pk-Sort Objective | Building | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Baillie | Coulter | Emerson | Haley | Heaverich | Houghton | Jones | Longfellow | Loomis | Morley | Rouse | Salina | #1 Webber | #2 Webber |
| 1 (80)* | 82.8% | 89.5% | 100.0% | 86.7% | 100.0% | 100.0% | 96.4% | 95.0% | 75.0% | 100.0% | 86.8% | 86.7% | 83.3% | 64.3% |
| 2 (80) | 75.9% | 78.9% | 91.7% | 83.3% | 100.0% | 96.9% | 96.4% | 80.0% | 92.5% | 100.0% | 84.2% | 100.0% | 100.0% | 64.3% |
| 3 (50) | 37.9% | 63.2% | 52.8% | 13.3% | 100.0% | 84.4% | 89.3% | 77.5% | 40.0% | 84.2% | 71.0% | 80.0% | 86.7% | 50.0% |
| 4 (70) | 31.0% | 36.8% | 47.2% | 16.7% | 86.7% | 93.8% | 92.8% | 65.0% | 42.5% | 78.9% | 78.9% | 33.3% | 83.3% | 14.3% |
| 5 (50) | 86.2% | 52.6% | 47.2% | 56.7% | 86.7% | 46.9% | 78.6% | 70.0% | 40.0% | 94.7% | 81.6% | 46.7% | 83.3% | 50.0% |
| 6 (85) | 82.8% | 57.9% | 100.0% | 96.7% | 90.0% | 100.0% | 100.0% | 87.5% | 90.0% | 100.0% | 81.6% | 66.7% | 100.0% | 92.8% |
| 7 (80) | 37.9% | 57.9% | 38.9% | 60.0% | 100.0% | 100.0% | 100.0% | 55.0% | 40.0% | 94.7% | 57.9% | 60.0% | 46.7% | 28.6% |
| 8 (65) | 72.4% | 36.8% | 38.9% | 10.0% | 96.7% | 84.4% | 96.4% | 45.0% | 17.5% | 100.0% | 63.2% | 46.7% | 20.0% | 0.0% |
| 9 (50) | 82.8% | 78.9% | 83.3% | 100.0% | 100.0% | 100.0% | 78.6% | 47.5% | 95.0% | 94.7% | 50.0% | 80.0% | 100.0% | 42.8% |
| 10 (80) | 69.0% | 63.2% | 94.4% | 80.0% | 96.7% | 100.0% | 96.4% | 50.0% | 67.5% | 100.0% | 52.6% | 13.3% | 90.0% | 71.4% |
| 11 (65) | 65.5% | 36.8% | 27.8% | 56.7% | 90.0% | 75.0% | 67.8% | 45.0% | 87.5% | 57.9% | 52.6% | 46.7% | 93.3% | 7.1% |
| 12 (65) | 27.6% | 21.1% | 36.1% | 30.0% | 86.7% | 84.4% | 78.6% | 35.0% | 27.5% | 68.4% | 36.8% | 40.0% | 33.3% | 14.3% |
| 13 (80) | 86.2% | 100.0% | 80.6% | 83.3% | 96.7% | 100.0% | 100.0% | 75.0% | 85.0% | 94.7% | 94.7% | 80.0% | 100.0% | 50.0% |

*Represents criteria for each objective.

## APPENDIX B

### PREKINDERGARTEN PARTICIPANTS BY BUILDING AS OF JANUARY 31, 1989.

| Elementary Building | Number of Participants |
|---|---|
| E. Baillie | 27 |
| Coulter | 21 |
| Emerson | 41 |
| Nelle Haley | 35 |
| Heavenrich | 37 |
| Houghton | 40 |
| Jones | 38 |
| Longfellow | 40 |
| Jessie Loomis | 40 |
| Morley | 20 |
| Jessie Rouse | 40 |
| Salina | 22 |
| Webber Ele. | 47 |
| TOTAL | 448 |

## APPENDIX C

**TABLE C.1. SUMMARY OF NUMBER AND PERCENT OF PREKINDERGARTEN FAMILIES ATTAINING OBJECTIVES REGARDING THE PARENTS AS PARTNERS COMPONENT BY BUILDING, 1988-89.**

| School | Number of Students Enrolled* | Parent Participation Objective 14 | | Parent Meetings Objective 15 | | Homework Activities Objective 16 | |
|---|---|---|---|---|---|---|---|
| | | # | % | # | % | # | % |
| Baillie | 29 | 27 | (93.1) | 27 | (93.1) | 29 | (100.0) |
| Coulter | 19 | 17 | (89.5) | 16 | (84.2) | 17 | (89.5) |
| Emerson | 37 | 28 | (75.7) | 27 | (73.0) | 24 | (64.9) |
| Haley | 32 | 22 | (68.8) | 23 | (71.9) | 32 | (100.0) |
| Heavenrich | 30 | 23 | (76.7) | 28 | (93.3) | 30 | (100.0) |
| Houghton | 33 | 32 | (97.0) | 33 | (100.0) | 32 | (97.0) |
| Jones | 31 | 21 | (67.7) | 29 | (93.5) | 30 | (96.8) |
| Longfellow | 40 | 21 | (52.5) | 18 | (45.0) | 31 | (77.5) |
| Loomis | 39 | 35 | (89.7) | 31 | (79.5) | 39 | (100.0) |
| Morley | 19 | 14 | (73.7) | 16 | (84.2) | 17 | (89.5) |
| Rouse | 38 | 36 | (94.7) | 22 | (57.9) | 20 | (52.6) |
| Salina | 17 | 12 | (70.6) | 15 | (88.2) | 17 | (100.0) |
| Webber #1 | 29 | 27 | (93.1) | 29 | (100.0) | 29 | (100.0) |
| Webber #2 | 14 | 8 | (57.1) | 11 | (78.6) | 1 | (7.1) |
| TOTAL | 407** | 323 | (79.4)+ | 325 | (79.8)+ | 348 | (85.5)+ |

*Number of students enrolled and attending program for any length of time.
**This figure does not include duplicate students who were enrolled at two or more different sites during the year.

+Objective attainment:

--Parent participation of at least 60% for at least four school activities.
--Parent meetings of at least 60% for at least four Friday meetings.
--Homework activities of a least 80% for at least nine home activities.

# *Prekindergarten*

# SAGINAW OBJECTIVE REFERENCED TEST (PK-Sort)

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Superintendent, Foster B. Gibbs, Ph.D.

Rev. 0489

## APPENDIX C

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## APPENDIX C

### DIRECTIONS FOR ADMINISTERING

### PREKINDERGARTEN SAGINAW OBJECTIVE REFERENCED TEST (PK-SORT)

This test is to be administered on a one-to-one basis. It is important that each testing situation be essentially the same for all pupils. Very careful attention should be given to the detailed instructions that are provided in these directions, as well as the instructions that are incorporated into the test itself.

All teacher directions that are included in the test will be in parentheses ( ) and are not to be read to the pupil. The teacher should be familiar with all questions as well as the materials that are to be used in administering the test. The test kit should be checked for inclusion of a complete set of the manipulative materials and flash cards. (See Appendix A for an inventory of these materials.)

In administering the test, the teacher is to score the pupil response to each item as it is given. Each item is scored on a right or wrong basis. The content of each pupil response is to be accepted by the teacher at face value. The teacher should be careful not to provide the pupil with any verbal or nonverbal signals that might influence the pupil's thinking or eventual answer.

It is appropriate for the teacher to provide help that ensures that the pupil understands the task to be performed. In order to facilitate this understanding, each set of instructions should be given and then be repeated. Some pupils benefit from a pause or a "wait time" before they are required to give a response. It is permissable to have a pupil start over if it appears that he/she has forgotten the task, or is confused as to what to do. The pupil should be given up to 30 seconds to respond to any given item. Every

attempt should be made to administer all items of the test to all pupils. The teacher should take as much time as reasonably necessary to complete the test. If appropriate, the test can be given over a number of days and in a number of settings.

Since the teacher is to judge the correctness or incorrectness of each pupil response, the directions for each test item contains a section on correct or acceptable responses. A clear understanding of the acceptable responses provided in the test instructions will ensure that the teacher can quickly and consistently score each item. Responses are to be scored and coded on the answer sheet as the pupil answers each question. The following symbols are to be used for scoring:

A for correct responses and

B for incorrect or no responses

A machine scoreable answer sheet will be used to record the pupil's responses. The teacher should carefully follow the procedures that are outlined in the Directions for Completing the Prekindergarten SORT Answer Sheets. These directions will be included in the packet containing the machine scoreable answer sheets.

## APPENDIX C

## PREKINDERGARTEN SORT TEST ITEMS

### PART I: COGNITIVE DEVELOPMENT SUBTEST

(Remember, all statements in parentheses ( ) are intended for your use and are not to be read to the child. In recording answers on your answer sheet, you should code A = correct response and B = incorrect or no response.)

1. SAY, "Let's play a game where you have to tell me about things you cannot see."

   (Hand the pupil feely sock Number 1. It contains a metal zipper.)

   SAY, "Put your hand in the sock. Keep your hand in the sock. Take the thing that is in the sock and feel it. Tell me about it."

   (Pause. Listen for one of these acceptable responses and mark your scoring sheet accordingly.)

   Acceptable Responses

   -- Name of the object
   -- Shape of the object
   -- Use of the object
   -- Name of the material of the object
   -- Texture of the object

   SAY, "Let's take a look at it. Now, let's do another one."

   (Put away sock Number 1 making sure that the zipper is put back, take out sock Number 2.)

2. (Hand the pupil feely sock Number 2. It contains a toothbrush.)

SAY, "Put your hand in the sock. Keep your hand in the sock. Take the thing that is in the sock and feel it. Tell me about it."

(Pause. Listen for one of these acceptable responses and mark your scoring sheet accordingly.)

Acceptable Responses

— Name of object
-- Shape of the object
— Use of the object
-- Name of the material of the object
— Texture of the object

SAY, "Let's take a look at it. Now, let's do another one."

(Put away Number 2 making sure that the toothbrush is put back, take out sock Number 3.)

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4. SAY, "Now let's take a look at some pictures and talk about them."

(Show the child the picture marked with the Number 4 on the back. As you are holding it follow these directions.)

SAY, "Tell me who this worker is. What does s/he do?"

(Pause for response, listening for one of the acceptable responses listed below.)

Acceptable Responses

-- Name of the role or title of the worker or
— A description of what s/he does or how the worker helps us.

(Mark your scoring sheet accordingly.)

5-7. (Put away picture Number 4 and continue following the same directions for pictures 5, 6, and 7. Remember to mark on your scoring sheet after each question.)

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9. SAY, "In just a minute we will play a game with some circles and triangles which should be lots of fun."

(Open the envelope marked item Number 9 and randomly place the shapes in front of the pupil. As you describe what the pupil is to do, gesture with your hands to represent two piles.)

SAY, "Put the shapes that are the same into two piles. All the shapes in each pile should be alike."

(Pause for the child to group the shapes. Make sure that the groups are correct according to the acceptable response listed below.)

Acceptable Response

— Grouping according to form

(Mark your scoring sheet accordingly.)

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10. SAY, "Now let's play with some toy bears. They are a family."

(Remove toy bears from envelope marked item Number 10 and allow child to play with and talk about the bear family.)

SAY, "Now, can you put this family from the biggest to the smallest?"

(Pause for the child to arrange the bears from biggest to smallest or the reverse order. Make sure that the arrangement is correct according to the acceptable responses listed below.)

Acceptable Responses

-- All four bears from biggest to smallest or
— All four bears from smallest to biggest

(Mark your scoring sheet accordingly.)

11. SAY, "Now let's take a look at some pictures and put them in order."

(Open the envelope marked item Number 11 and randomly place the four pictures in front of the pupil.)

SAY, "Here are four girls. Some of the girls are tall, some are short. Put the girls in a row from tallest to shortest."

(Provide a ruler as base. Pause for the child to arrange the girls. Make sure that the arrangement is correct according to the acceptable responses listed below.)

Acceptable Responses

-- All four pictures from tallest to shortest or
-- All four pictures from shortest to tallest

(Mark your scoring sheet accordingly.)

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SAMPLE EXERCISE

SAY, "Let's play a game with some pictures and stories. I will read you a story. Then you will make the pictures tell me what happened. You will give me the picture that happened first, next, and last."

(Open envelope marked sample, 12 and 13. Take out pictures for the sample item.)

SAY, "Let's do the first one together. Listen to this story. 'Mary is riding her bicycle to school. She locked it up. Then she played ball with the kids.' Now let's put the pictures together so they tell the same story." (Teacher hands the pictures to the child in a 3, 1, 2 order.) "Give me the picture that happened first."

(Pause for answer and correct child if s/he has not understood directions.)

SAY, "Give me the picture that happened next."

(Pause for answer and correct child if s/he has not understood directions.)

SAY, "Give me the picture that happened last."

(If child gives incorrect sequence, teacher tells the story and presents the pictures in the correct order.)

(Take out pictures marked Number 12.)

2. SAY, "Let's do another picture story. Listen to this story. 'Danny broke a glass while washing dishes. He swept up the glass. He put the broken glass in the trash can.' (Teacher hands the pictures to child in a 3, 1, 2 order.) "Give me the picture that happened first." (Pause for the correct picture.) "What happened next?" (Pause for the correct picture.) "What happened last?"

(Pause for the child to answer the questions. Make sure that the answer is listed below as an acceptable response.)

Acceptable Response

-- All three pictures in correct time order sequence even if backwards.

(Mark your scoring sheet accordingly and put the pictures away.)

(Take out pictures marked Number 13.)

3. SAY, "Let's do another picture story. Listen to this story. 'Jane and her two friends climbed the tree. The branch Jane was on broke and she fell. Jane broke her leg and had to walk on crutches.' Now put the pictures together so they tell the same story." (Teacher hands the three pictures to child in a 3, 2, 1 order.) "Give me the picture that happened first?" (Pause for the picture.) "What happened next?" (Pause for the picture.) "What happened last?"

(Pause for the child to answer the questions. Make sure that the answer is listed below as an acceptable response.)

Acceptable Response

-- All three pictures in correct time order sequence even if backwards

(Mark your scoring sheet accordingly and put the pictures away.)

14. SAY, "I have a picture here out of a story book. It's part of the story, but the words are missing. Would you look at my picture and help me with the story?"

(Teacher hands child the picture from folder marked Number 14.)

SAY, "Tell me what you see in this picture."

(Pause for the child to answer. Make sure that the answer is listed below as an acceptable response.)

Acceptable Responses

-- Name at least four objects in picture

(Need not identify correctly)

For example:
animals
balloons
candles
koolaid
juice
chairs
table
hats
cake

Incorrect Responses

— Did not talk
-- Named less than four objects
— Gave irrelevant responses

(Mark your scoring sheet accordingly.)

(Child continues to use picture marked Number 14.)

15. SAY, "Tell me what you think is happening in the picture?"

(Pause for the child to tell the story. Make sure that the answer is listed below as an acceptable response.)

Acceptable Response

-- Uses a sentence of 5 or more words

Incorrect Responses

-- Child does not talk
— Uses sentences of four words or less
-- Uses phrases

(Mark your scoring sheet accordingly.)

16. (Score story given for item 15 in terms of acceptable responses given below.)

Acceptable Response

-- Uses at least 3 or 5 of the listed elements of fluency. *

Incorrect Response

-- Uses less than 3 of the listed elements of fluency. *

* Fluency consists of additional responses using:

— Modifiers (uses adjectives or adverbs.)
-- Spatial elements (uses prepositions indicating position.)
-- Number words
-- Emotional or feeling words
— Sequence (uses phrases to describe a series of events.)

(Mark your scoring sheet accordingly.)

17. (Child continues to hold the picture from the folder marked Number 15.)

SAY, "What do you think will happen next? What will they do when the party is over?"

(Pause for the child to answer. Make sure that the answer is listed below as an acceptable response.)

Acceptable Response

-- Child uses 1 or more of the elements listed below as a plot extension. * Any of the extensions below should be acceptable.

* Plot extension consists of:

-- Inferences
-- Predictions
-- Cause and effect
-- Conclusions

Incorrect Response

-- Child does not use plot extension. *

* Plot extension consists of:

-- Inferences
-- Predictions
-- Cause and effect
-- Conclusions

(Mark your scoring sheet accordingly and put the picture away.)

## APPENDIX C

### PART II: PSYCHOMOTOR ABILITIES SUBTEST

51. (From envelope marked Number 51, ask pupil to fold a 5" x 5" sheet of paper in half. Teacher demonstrates with a sample.)

SAY, "Fold the paper in half."

Acceptable Response

-- Using ruler, folds should show an accuracy + 3/8" in any direction.

(Mark scoring sheet accordingly.)

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52. (Using the same folded sheet, ask pupil to open the sheet and cut the paper on the fold.)

SAY, "Now open the sheet and cut the paper on the fold line."

(Teacher demonstrates with his/her sample.)

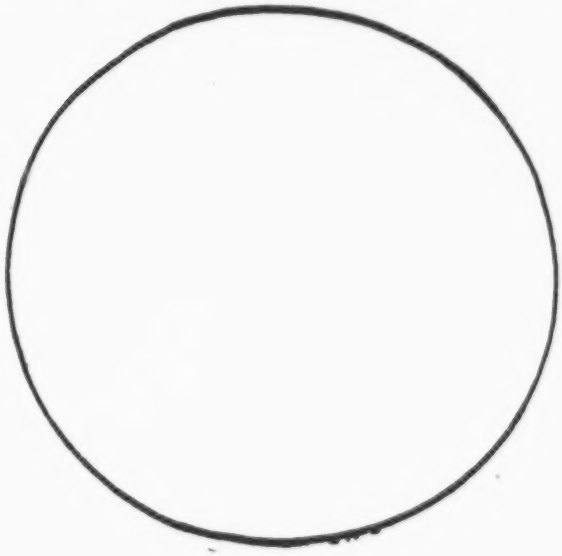
Acceptable Response

-- Using ruler, cuts should be + 1/2" from the fold.

(Mark scoring sheet accordingly.)

3. (Using a crayon from envelope Number 53, ask pupil to color inside the outline of the circle.)

SAY, "Color inside this circle. Color all of the circle."



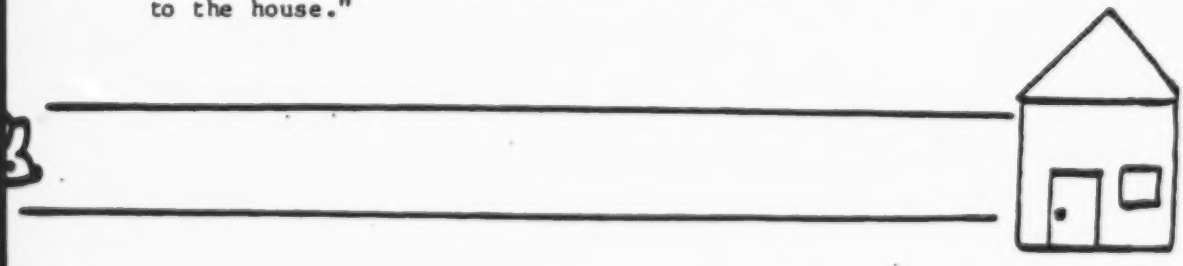
Acceptable Response

-- Using ruler, coloring marks should not exceed 1/2" at any point and approximately 2/3 rds of circle should be colored.

(Mark scoring sheet accordingly.)

4. (Using a crayon from envelope Number 54, ask pupil to draw a line between the two lines.)

SAY, "Draw a line between the two lines from the mouse to the house."



Acceptable Response

-- Crayon line must be within parallel lines and connect the mouse to the house or come within at least 1/2" of touching both the mouse and the house.

(Mark scoring sheet accordingly.)

55. (Using cut-out forms from envelope Number 55, place them on the table facing the child in the order shown below. Then take a similar set from envelope Number 55 and ask the child to make the same pattern.)

SAY, "You make your row look just like mine."

Acceptable Response

-- Linear order must be the same as the example.

(Mark scoring sheet accordingly.)

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56. (Child must be seated across the teacher. Teacher places his/her 5 toy cars from envelope Number 56 on the oaktag circle. The teacher puts down the parking strip, one in front of the child and another at least 10 inches away from that one and parallel to it.)

SAY, "We are going to build parking lots. First, you watch how I park my cars and trucks."

(From the circle the teacher takes 5 cars and places them on teacher parking strip #2 in the same predetermined order for all children as printed on parking strip. Teacher then places the child's 5 toy cars on the oaktag circle and asks the child to park his/her cars on child's parking strip #1 to look just like the teacher's.)

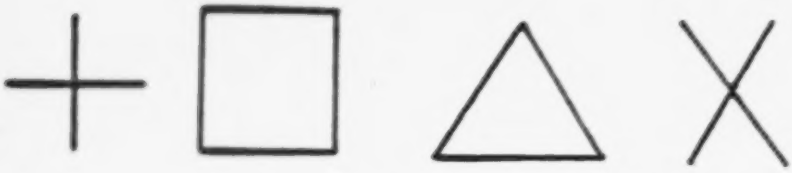
SAY, "Park your cars just like mine."

Acceptable Response

-- Linear order of cars must be the same as the teacher's order according to color.

(Mark scoring sheet accordingly.)

60. (Using cards from envelope Number 57-60, show one card at a time in the following order. Hand an extra sheet of paper to the child to draw the figures.)



SAY, "Draw a shape like this one."

Acceptable Response

-- See Appendix B for acceptable drawings as shown in Administration and Scoring Manual for the Developmental Test of Visual Motor Integration.

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63. (Given a directive [opportunity] to skip, as a participant in any group activity which involves skipping, the learner will be able to skip using alternate feet, for a distance of ten or more feet.)

Acceptable Response

-- Successful performance of the above activity.

(Mark scoring sheet accordingly.)

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64. (Given a ten-foot length of a 2" by 4" piece of lumber, the child will be able to walk a distance of at least five feet on the 4" side of the lumber.)

Acceptable Response

-- Successful performance of the above activity.

(Mark your scoring sheet accordingly and put the materials away. Thank the child for working with you.)

## APPENDIX C

## ATTACHMENT A

## PRE-SORT INVENTORY OF MATERIALS

### T I: COGNITIVE DEVELOPMENT SUBTEST

Item 1. - 1 feely sock with a zipper in it.

Item 2. - 1 feely sock with a toothbrush in it.

Item 3. - 1 feely sock with a plastic egg in it.

Items 4-7. - picture of a postman, policeman, truck driver, and snack bar attendant.

Item 8. - 4 green and 4 yellow candies (4 round and 4 rectangular)

Item 9. - 5 circles (3-3/4" diameter) and 4 triangles (3-7/8" sides)

Item 10. - 4 bears of varying heights/sizes

Item 11. - 4 girl paper dolls of varying heights/sizes and 1-12" ruler for base (9-1/2", 7-7/8", 6-1/4", and 5-1/4" tall)

Sample - 3 pictures of Mary riding bike, locking bike, and playing.

Item 12. - 3 pictures of Danny dropping, sweeping up, and throwing away glass.

Item 13. - 3 pictures of Jane climbing, falling, and then on crutches.

Item 14. - 1 picture of an animal birthday party.

### T II - PSYCHOMOTOR DEVELOPMENT SUBTEST

Items 51-52. - 5-inch square pieces of paper and 1 pair of scissors.

Items 53-54. - paper with a 3-inch circle and a mouse/house illustration on it. (template for 3-inch circle scoring.)

Item 55. - 4 house illustrations and 6 face illustrations.

Item 56. - 2 strips of oaktag (3" x 8-1/2") for parking lots
1 oaktag circle (5-1/8" in diameter) for setting out cars and trucks
5 sets of different colored cars and/or trucks (2 per set).

Items 57-60. - oaktag flash cards (5-1/2" x 5-1/2") of a square figure, a triangle figure, a plus sign, and an "X".
multiple sheets of paper set up for students to replicate figures with four quadrants.

Item 62. - 1 strip of tape or mark on the floor is needed.

Item 64. - a 2" x 4" x 10' piece of lumber or a balance board is needed.

APPENDIX C

ATTACHMENT B

**FORM 3 Circle**

*Scoring Criteria*

Predominantly circular lines

Age Norms
(Imitated)
2.9
(Copied)
3.0

**Passing**

**Failing**

64

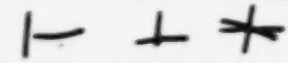
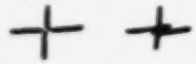
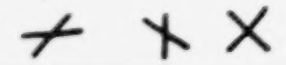
APPENDIX C

ATTACHMENT B

## FORM 4 Vertical-Horizontal Cross

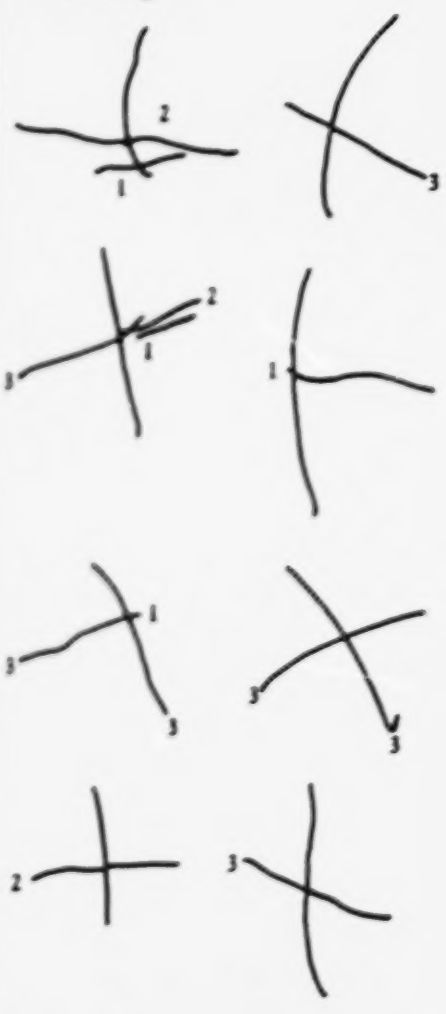
Age Norm 4;1

*Scoring Criteria*

1. Two fully intersecting lines — not: 
2. Two continuous lines — not: 
3. At least ½ of each line within 20° of its correct orientation — not: 

**Passing**

**Failing**



APPENDIX C

ATTACHMENT B

**FORM 6 Square**

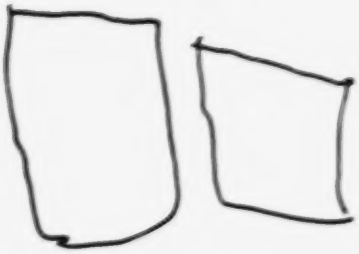
*Scoring Criteria*

Age Norm 4.6

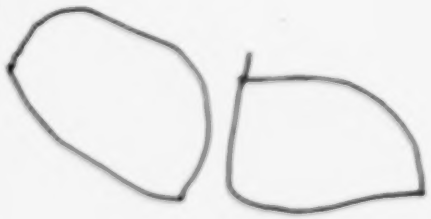
Four clearly defined *sides*
(corners need not be angular)

not:

**Passing**



**Failing**



APPENDIX C

ATTACHMENT B

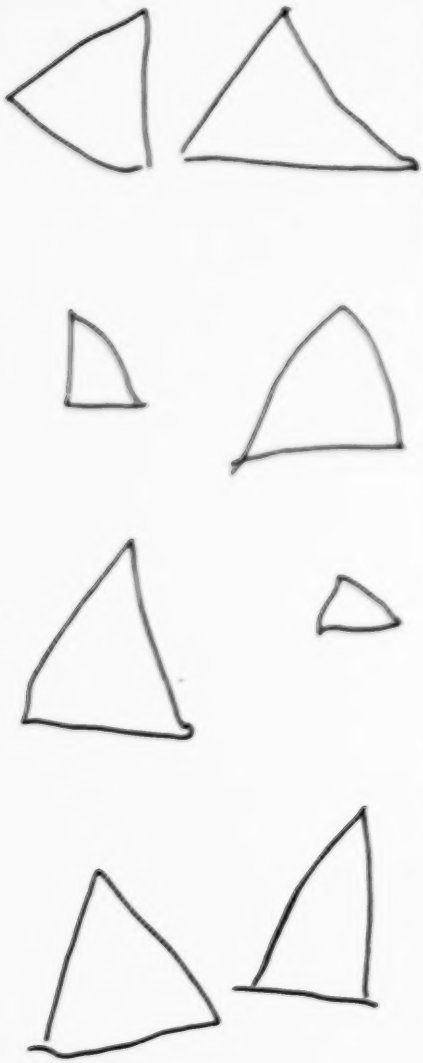
## FORM 9 Triangle

*Scoring Criteria*

*Age Norm 5;3*

| | |
|---|---|
| 1. Three clearly defined sides | not: |
| 2. One corner higher than others | not: |

**Passing**



**Failing**